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Kanto Denka Kogyo Co., Ltd., 425, Kanai, Shibukawa-shi,
Gunma 3770027 (JP).

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(74) Agent: OKIMOTO, Kazuaki; YUASA AND HARA,
Section 206, New Ohtemachi Bldg., 2-1, Ohtemachi
2-chome, Chiyoda-ku, Tokyo 1000004 (JP).

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(71) Applicant (*for all designated States except US*): KANTO
DENKA KOGYO CO., LTD. [JP/JP]; 2-1, Marunouchi
1-chome, Chiyoda-ku, Tokyo 1000005 (JP).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): IINUMA, Hidehiko
[JP/JP]; c/o Matarials for Recording Media Lab., Kanto
Denka Kogyo Co., Ltd., 425, Kanai, Shibukawa-shi,
Gunma 3770027 (JP). HAYASHI, Masatomo [JP/JP]; c/o
Matarials for Recording Media Lab., Kanto Denka Kogyo
Co., Ltd., 425, Kanai, Shibukawa-shi, Gunma 3770027
(JP). MATSUURA, Natsuki [JP/JP]; c/o Matarials for
Recording Media Lab., Kanto Denka Kogyo Co., Ltd., 425,
Kanai, Shibukawa-shi, Gunma 3770027 (JP). OGUMA,
Yukinari [JP/JP]; c/o Matarials for Recording Media Lab.,

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(54) Title: AN MG-BASED FERRITE, AN ELECTROPHOTOGRAPHIC DEVELOPMENT CARRIER CONTAINING THE FERRITE, AND DEVELOPER CONTAINING THE CARRIER

(57) Abstract: This invention provides an Mg-based ferrite having a high dielectric breakdown voltage and a saturation magnetiza-
tion suitable for electrophotographic development, a carrier containing the ferrite, and an electrophotographic developer containing
the carrier. The Mg-based ferrite material of this invention comprises Li, Na, K, Rb, Cs, Ca, Sr, Ba, Y, La, Ti, Zr, Hf, V, Nb, Ta, Al,
Ga, Si, Ge, P, Sb, Bi or a combination thereof. The Mg-based ferrite material has a saturation magnetization of 30 to 80 emu/g, and
a dielectric breakdown voltage of 1.5 to 5.0 kV. The Mg-based ferrite material can realize high image quality, and be in compliance
with environmental regulations.

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